



## MOSA GE 90 FSX (STAGE 3A)

Reference: CL6M5056

### MOSA GE90 FSX 52,8 KW generating set

MOSA GE90 FSX three-phase power generator of 52,8 KW with Iveco diesel engine. The MOSA GE90 FSX generator set is equipped with electric start. The alternator of the MOSA GE90 FSX generator set is synchronous, three-phase, self-excited, self-regulated, brushless with class H insulation with AVR voltage regulator.

This MOSA GE90 FSX is compact and convenient to maneuver and transport thanks to its compact size, with a weight of 1580 kg as well as its practical pierceable base. The MOSA GE90 FSX generator set with 230 liters fuel tank has a fuel consumption of 14,7 liters/hour at 75% of the load for a range of more than 15 hours.

### Technical specifications:

Three-phase Stand-by Output (LTP): 90 kVA (72 kW) / 400V / 130A  
 Three-phase PRP Output: 83 kVA (66.4 kW) / 400V / 120A  
 Three-phase COP Output: 66 kVA (52.8 kW) / 400V / 95.3A  
 Frequency: 50 Hz  
 Cos φ: 0.8

#### ENGINE TECHNICAL DATA

Model: FPT IVECO N45TE1F Stage 3A  
 Cylinders / Displacement: 4 / 4500 cm<sup>3</sup> (4.5 lt.)  
 Bore / Stroke: 104 / 132 (mm)  
 Compression Ratio: 17.5 : 1  
 Net standby output: 80 kW (109 hp)  
 Net PRP output: 72.5 kW (99 hp)  
 Net COP output: 58.4 kW (79 hp)  
 BMEP Effective Average Pressure: 1777 kPa - 1617 kPa  
 RPM Controller: Electronic  
 110 % (Stand-by Power): 20.5 lt./h - 209.7 g/kWh  
 100 % PRP: 18.8 lt./h - 212.5 g/kWh  
 75 % PRP: 14.7 lt./h - 220 g/kWh  
 50 % PRP: 11.5 lt./h - 234.5 g/kWh  
 Cooling system: Liquid  
 Total capacity - motor only: 10 lt - 8.5 lt.  
 Fan air flow: 132 m<sup>3</sup>/min.  
 Total oil capacity: 12.8 lt  
 Sump oil capacity: 8.5 lt + 5.5 lt  
 Full load oil consumption: < 0.023 lt./h  
 Max. exhaust gas flow rate: 8.6 kg/mim.

Max. exhaust gas temperature: 430 °C  
Max. back pressure: 5 kPa (0.05 bar)  
Electrical system: 12 Vdc  
Starter motor power: 3 kW  
Battery charging alternator capacity: 90 A  
Cold start: - 10 °C  
With cold start device: - 25 °C  
Air filter: Dry  
Combustion air flow: 7.1 m<sup>3</sup>/min  
From exhaust: 630 kcal/kWh  
From water and oil: 416 kcal/kWh  
Injected to the environment: 84 kcal/kWh  
Supercharged cooling: 115 kcal/kWh

#### TECHNICAL DATA ALTERNATOR

Continuous power: 85 kVA  
Standby power: 94 kVA  
Three-phase voltage: 380 - 415 Vac  
Frequency: 50 Hz  
Cos  $\phi$ : 0.8  
A.V.R. model.: MARK V  
Voltage regulation accuracy:  $\pm 0.5\%$   
Sustained short-circuit current: 3 I<sub>n</sub>  
Transient Cdt (100% of load): < 20 %  
Response time: < 0.3 sec  
Efficiency at 100% load: 91 % (400V - Cos  $\phi$  0.8)  
Isolation: Class H  
Connection - Terminals: Star - No. 12  
Electromagnetic compatibility: EN 55011  
Harmonic distortion - THD: < 2 %  
Telephone interference - THF: < 2 %  
Direct synchronous - X<sub>d</sub>: 285 %  
Direct transitory - X'<sub>d</sub>: 22.5 %  
Direct subtransitory - X''<sub>d</sub>: 10.8 %  
Synchronous quad. - X<sub>q</sub>: 160 %  
Subtrans. in quadrature - X'<sub>q</sub>: 12 %  
Of reverse sequence - X<sub>2</sub>: 11.4 %  
Of zero sequence - X<sub>0</sub>: 2.5 %  
Transitory - T'<sub>d</sub>: 0.071 sec  
Subtransitory - T''<sub>d</sub>: 0.005sec  
Unidirectional - T'<sub>do</sub>: 0.82sec  
Unidirectional - T<sub>a</sub> / Armatures - T<sub>a</sub>: 0.005sec  
Short-circuit ratio K<sub>cc</sub>: 0.38  
Protection class: IP 23  
Cooling air flow rate: 0.31 m<sup>3</sup>/sec.  
Coupling I Bearings: Direct SAE 3 -11 1/2 - No. 1

#### GENERAL SPECIFICATIONS

Tank capacity: 230 lt.  
Run time (75% of PRP): 15.5 h  
Measured acoustic power L<sub>wA</sub>: 92 dB(A) (67 dB(A) @ 7m)  
Guaranteed acoustic power L<sub>wA</sub>: 94 dB(A) (69 dB(A) @ 7m)  
Performance class: G3  
Length: 2630 mm  
Width: 1130 mm  
Height: 1750 mm  
Weight: 1630 Kg

MOSA - Iveco diesel engine electric start - Three-phase alternator - Three-phase power 83 kVA (66.4 kW)

If you are looking for another product like the MOSA GE90 FSX generator set then you can browse our catalog for more [land based generator sets](#).

Images and technical data are not binding.

## Technical Sheet

Phase	Single phase / Three phase
Maximum power three phase (KW)	52.8
Continuous power three phase (KW)	48
Maximum power three phase (KVA)	90
Continuous power three phase (KVA)	66
Fuel	Diesel
Frequency (Hz)	50
Voltage (V)	230 / 400
Engine	FPT (IVECO) N45TE1F, 4 stroke turbo-aftercooler
Emissions Regulations	Stage 3A
Engine rpm (rpm)	1500
Speed governor	Electronic
Starting system	Electric
Engine capacity (cm <sup>3</sup> )	4500
Number cylinders	4
Oil capacity (L)	12.8
Cooling	Water
Inyección	Direct
Alternator	Three-phase synchronous self-excited, self-regulated, brushless
Bore x stroke (mm)	104 x 132
Fuel tank capacity (L)	230
Consumption (L/h)	14.7 at 75% of the load
Running time (h)	15.5 at 75% of the load
Acoustic power	94 dB(A)
Acoustic pressure	69 dB(A) at 7 m
Length (mm)	2630
Width (mm)	1130
Height (mm)	1750
Dry weight (Kg)	1630

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Silenced	Yes
Super silenced	Yes
Product type	Generator
ATS Switch device	Optional ATS
Voltage regulator	AVR
Engine manufacturer	FPT Iveco

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